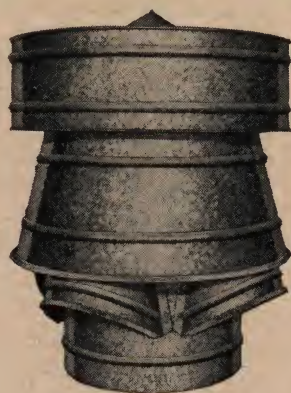
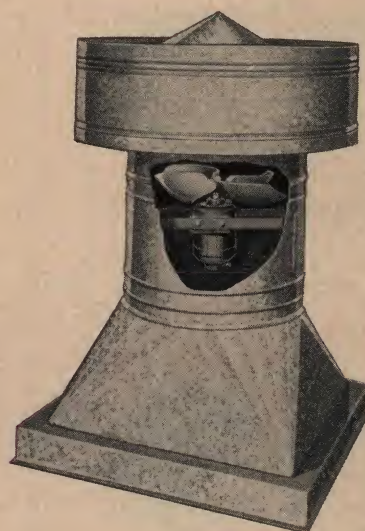




Engineered
VENTILATION
for every need



Arex



AREX COMPANY

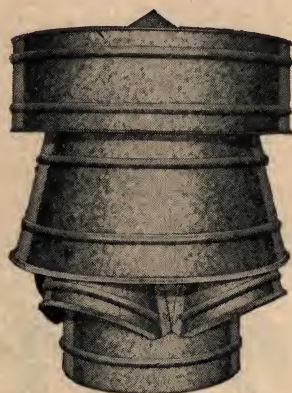
Industrial Ventilating Engineers

612 North Michigan Avenue

CHICAGO 11, ILLINOIS

Factory and Warehouse — Gary, Ind.

Arex-Austor Original Siphonage Ventilator



ADAPTABILITY—The "Arex-Austor", original siphonage ventilator, is designed for use on all industrial buildings, power plants, stores, theaters, schools, homes, ships, etc. These units may be installed on any type of roof—will add to the architectural design of the building. (Refer to page 3 for optional equipment)

DESIGN—This stationary siphonage type of ventilator is one solid unit, no movable parts, nothing to get out of order. Built to give year-in and year-out service without attention. Absolutely stormproof. Four siphons concentrate all wind currents into a steady pulling force. The area outlet is three times the area of the inlet.

TESTS—The "Arex-Austor" gives constant, positive, and uniform ventilation under all conditions. Tests prove that with the wind striking the ventilator from any direction (top, side, or bottom) there is a continuous exhaust of air from the building. These units have greater exhaust capacity than common types.



Utility Gravity Roof Ventilator

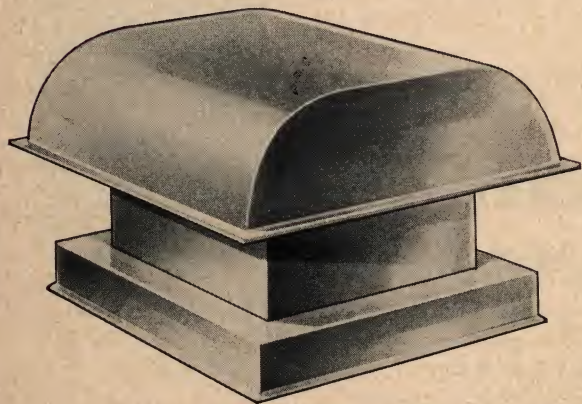
The "Utility" Ventilator is constructed with an extra wide stormband and has an inside baffle at the top and at the bottom. Double area outlet makes this stationary type roof ventilator highly efficient. All parts are riveted; no solder is used. Absolutely stormproof. Designed for use on all industrial buildings, power plants, stores, theaters, schools, etc. (Refer to page 3 for optional equipment)



Economy Gravity Roof Ventilator

The "Economy" Ventilator is designed to meet the demand for a roof ventilator at lowest possible cost, yet capable of solving any ordinary ventilating problem. It is manufactured in attractive proportional design of solid sturdy construction. All parts are riveted, no solder is used. No movable parts to break or get out of order. Absolutely stormproof. Designed for use on all industrial buildings, power plants, stores, theaters, schools, etc. (Refer to page 3 for optional equipment)

Skyline Air Intake and Pressure Relief Ventilator



A weatherproof low silhouette unit, designed for relief in areas of positive pressure, or for fresh air intake or exhaust in conjunction with ventilating systems. Provided with hinged top.

DAMPER—Chain operated butterfly damper, chain operated louver damper, self-operating louver damper, or motor operated louver damper, is optional equipment. State type of damper required, if any, in the specifications.

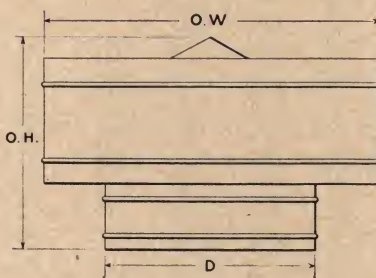
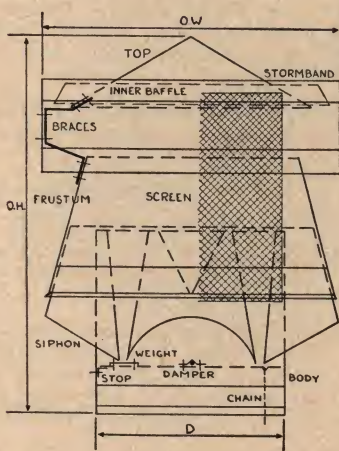
SCREEN—Bird screen or insect screen is included as a standard part of the unit. Specify type of screen required.

MATERIAL—Fabricated from prime sheets in galvanized steel, aluminum, copper, stainless steel, etc., and in standard gauges shown in table.

SPECIFICATION—Roof Ventilators (air intake or pressure relief), sizes and location as shown on plans or listed herein, to be Arex SKYLINE Gravity Ventilator as manufactured by AREX COMPANY, 612 North Michigan Avenue, Chicago 11, Illinois. Fabricated of manufacturer's standard gauge (state metal). Ventilator to be furnished with flashing for curb, screened with bird or insect screen, and equipped with damper (show type of damper).

Also available in rectangular sizes.

dimensions and ratings



HOW TO ORDER—Multiply the cubic contents of room or building by the number of air changes required per hour. Refer to tables above for the correct size of roof ventilator in the type desired.

Dimensions, inches			Exhaust, Cubic Feet				Material Gauge		Shpg Wt., lbs. Galv
			5-Mile Wind		10-Mile Wind				
D.	O.W.	O.H.	Per Min.	Per Hour	Per Min.	Per Hour	Galv. ga.	Alum. ga.	

AREX-AUSTOR, siphonage ventilator

6	9	12	100	6009	147	8838	24	20	18
8	12	16	178	10682	262	15710	24	20	21
10	15	20	278	16689	409	24543	24	20	25
12	18	24	401	24033	589	35343	24	20	28
14	21	28	545	32711	802	48105	24	20	38
16	24	32	712	42718	1047	62820	24	20	54
18	27	36	901	54070	1325	79515	24	20	68
20	30	40	1113	66769	1637	98190	22	20	93
24	36	48	1602	96145	2357	141390	22	20	130
30	45	60	2504	150215	3682	220905	22	20	225
36	54	72	3605	216311	5302	318105	20	18	405
42	63	84	4907	294403	7216	432945	20	18	475
48	72	96	6411	384642	9428	565650	20	18	620
54	81	108	8109	486540	11925	715500	20	16	800
60	90	120	10011	600678	14722	883350	18	16	910
66	99	132	12117	727056	17820	1069200	18	16	1170
72	108	144	14418	865062	21202	1272150	16	14	1450

Dimensions, inches			Exhaust, Cubic Feet 10 Mile Wind		Material Gauge		Shpg. Wt. lbs. Galv.
D	O.W.	O.H.	Per Min	Per Hour	Galv. ga.	Alum. ga.	

UTILITY

6	9	7	104	6240	24	20	8
8	12	9	167	10039	24	20	12
10	16	11	279	16780	24	20	16
12	19	13	416	24964	24	20	26
14	22	16	544	32690	24	20	30
16	25	18	752	45140	24	20	36
18	28	20	951	57060	24	20	45
20	31	22½	1168	70121	22	20	53
24	37½	27	1680	100856	22	20	75
30	47	34	2600	156027	22	20	130
36	56	40½	3711	222682	20	18	175
42	65½	47	5130	307816	20	18	225
48	75	54	6690	401433	20	18	310
54	84	61	8575	514532	20	18	375
60	93½	67½	10601	636114	18	16	400
66	103	74	14253	855212	18	16	575
72	112	81	16964	1017876	18	16	710

ECONOMY

6	10	6	70	4240	24	20	7
8	13	8	125	7539	24	20	10
10	16	10	196	11780	24	20	12
12	19	12	282	16964	24	20	17
14	22	14	394	23691	24	20	20
16	26	16	502	30147	24	20	25
18	29	18	636	38160	24	20	30
20	32	20	785	47121	22	20	35
24	38	24	1131	67866	22	20	55
30	48	30	1767	106027	22	20	95
36	57	36	2544	152682	20	20	125
42	67	42	3130	207816	20	18	175
48	76	48	4523	271433	20	18	225
54	86	54	5725	343532	20	18	275
60	96	60	7068	424114	18	16	360

Inside and outside temperature difference 20 deg. F. Stack height 40 ft. Sizes 48-inches and larger shipped knocked down.

materials

Fabricated from prime sheets in galvanized steel, aluminum, copper, stainless steel, etc., and in standard gauges as shown in table. Galvanized steel can be painted with a prime coat of paint. Special coatings are available for corrosive conditions.

optional equipment

DAMPER—Chain operated butterfly type with counter-weight and desired length of chain can be furnished when required. Fusible link for automatic closing in case of fire is included if necessary. Available for all sizes.

SCREEN—All screens are drum type (see open view) to prevent nesting of birds in the ventilator. ¼" or ½" mesh bird screen, or 16 mesh insect screen of galvanized, copper, bronze, aluminum, stainless steel wire, etc. Screens are furnished only when required.

CONDENSATION ARRESTOR—Applied around inside of ventilator throat with weep holes to drain any moisture to outside of ventilator and prevent dripping into building. The condensation arrestor is optional.

FAN UNIT—For fan ventilation, see Arex Fan Units described on page 7 of this catalog. Power units can be used with the "Arex-Austor" and Utility Ventilators.

BASES are constructed to fit any type of roof; furnished in seventeen different styles. Square to Round Bases Nos. 7, 8, 9, and 16 are most commonly used and are recommended because they provide the strongest support for the ventilator. All bases have flashing flange; bases for curb installation have down flashing at outside curb. Dimensions given in table on page 7 are standard but can be varied to meet the roof opening requirements. Indicate roof pitch for bases for slope and ridge roofs. Give inside opening and width of curb for bases to set on curb.

specifications

Roof Ventilators, sizes and location as shown on plans or listed herein, to be (state type ventilator by name) as manufactured by AREX COMPANY, 612 North Michigan Avenue, Chicago 11, Illinois. Fabricated of manufacturer's standard gauge (state metal). Ventilator to be furnished with base (style number), screened with bird or insect screen, equipped with chain operated damper.

dimensions

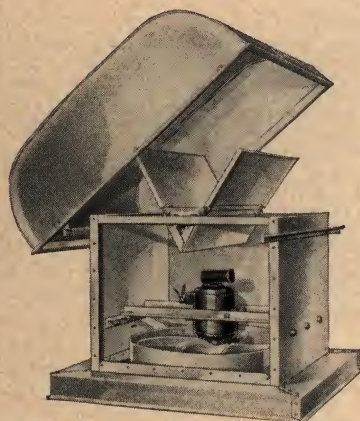
Catalog No.	Dimensions, inches					Gauge of Ventilators		Shpg. Wt., lbs. Galv.
	Roof Opening A x A*	B	C x C	H***	F**	Galv.	Alum.	
						ga.	ga.	
GS-12	12 x 12	3	18 x 18	15	4	24-20	22-18	90
GS-14	14 x 14	3	21 x 21	16½	4	22-20	20-18	95
GS-16	16 x 16	3	24 x 24	18	4	22-20	20-18	100
GS-18	18 x 18	3	27 x 27	19	4	22-20	20-18	120
GS-20	20 x 20	4	30 x 30	20	4	22-20	20-18	135
GS-24	24 x 24	4	36 x 36	24	4	22-20	20-18	150
GS-30	30 x 30	4	45 x 45	30	4	20-20	18-18	185
GS-34	34 x 34	4	51 x 51	32½	4	20-20	18-18	230
GS-38	38 x 38	4	57 x 57	36	4	20-20	18-18	300
GS-44	44 x 44	4	66 x 66	41	4	20-18	18-16	420
GS-50	50 x 50	4	75 x 75	50	4	20-18	18-16	550

*Roof opening dimensions must be maintained in the field.

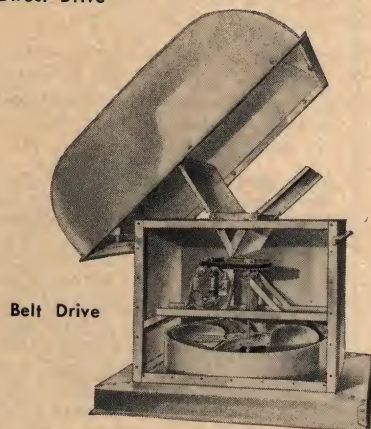
**Dimension varies to suit specific curb thickness.

***Maximum height. Overall height considerably reduced when damper is not required, or when louver type damper is used.

Skyline Power Roof Ventilator

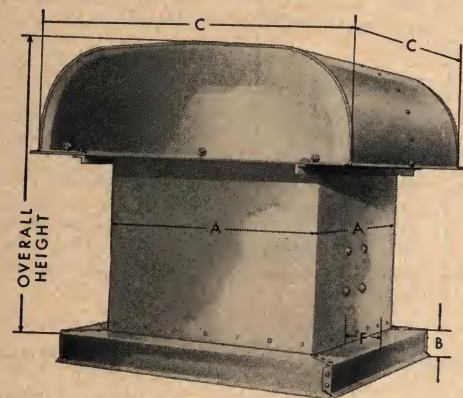


Direct Drive



Belt Drive

dimensions



Fan Size	Dimensions, inches						Gauge of Ventilators	
	A	Inside Curb Dimensions*	F**	B	C	Overall Height	Galv. ga.	Alum. ga.
10	12 1/2	11 1/2 x 11 1/2	4	3	18	23 1/2	22-18	20-16
12	14 1/2	13 1/2 x 13 1/2	4	3	21	24	22-18	20-16
14	16 1/2	15 1/2 x 15 1/2	4	3	24	25 1/2	22-18	20-16
16	18 1/2	17 1/2 x 17 1/2	4	3	26	26 1/2	22-18	20-16
18	20 1/2	19 1/2 x 19 1/2	4	3	30	28	20-18	18-16
20	22 1/2	21 1/2 x 21 1/2	4	4	32	32	20-18	18-16
22	24 1/2	23 1/2 x 23 1/2	4	4	36	34 1/2	20-18	18-16
24	26 1/2	25 1/2 x 25 1/2	4	4	39	37 1/2	20-18	18-16
28	30 1/2	29 1/2 x 29 1/2	4	4	46	42	20-18	18-16
30	32 1/2	31 1/2 x 31 1/2	4	4	48	43 1/2	20-18	18-16
32	34 1/2	33 1/2 x 33 1/2	4	4	50	44	20-18	18-16
36	38 1/2	37 1/2 x 37 1/2	4	4	57	51 1/2	20-18	18-16
42	44 1/2	43 1/2 x 43 1/2	4	4	66	54	20-18	18-16
48	50 1/2	49 1/2 x 49 1/2	4	4	75	65	20-18	18-16
54	56 1/2	55 1/2 x 55 1/2	4	4	82	65	20-16	18-14

*Inside curb dimensions must be maintained.

**Can be made to suit specific curb thickness.

Developed for complete weatherproof operation under all conditions. Compact and complete in a single housing. This square type power unit, with an extremely low overall height, is simple in design and modern from an architectural and engineering standpoint. Provides for low installation expenses as well as low ventilation cost. The hinged exhaust hood allows easy access to all internal parts. Belt-drive fans are recommended where quietness in operation is essential. Designed for application to curb with standard opening; flange base available for flat roof. Fabricated from prime sheets of galvanized steel, copper, aluminum, stainless steel, etc. Standard gauges shown in table.

MOTORS AND PROPELLERS—Totally enclosed ball bearing 55° C. fan duty motors are standard equipment. Propellers carry certified rating. H.P. and R.P.M. are combined for highest efficiency at economical cost.

DAMPER—Counter-balanced, self-operating damper shown in illustration is standard equipment. A motor operated louver damper or self-operating louver damper can be furnished.

BEARINGS AND PULLEYS—Two oversized self-aligning heavy duty pillow block ball bearings on propeller shaft with capacity to handle radial thrust loads. Motor and fan pulleys are located as far apart as possible, allowing maximum belt wrap, thereby assuring positive drive.

SPECIFICATIONS—Power Roof Ventilators, sizes and location on plans or given herein, to be Arex SKYLINE, Catalog No. , as manufactured by AREX COMPANY, 612 North Michigan Ave., Chicago 11, Ill. Fabricated of manufacturer's standard gauge (state metal). Show requirement for motor operated louver damper or self-operating louver damper in lieu of standard type damper. THE AREX SKYLINE ROOF VENTILATOR IS ALSO AVAILABLE AS AN AIR INTAKE AND PRESSURE RELIEF GRAVITY ROOF VENTILATOR. Refer to pages 2 and 3.

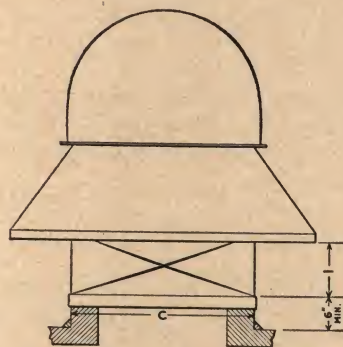
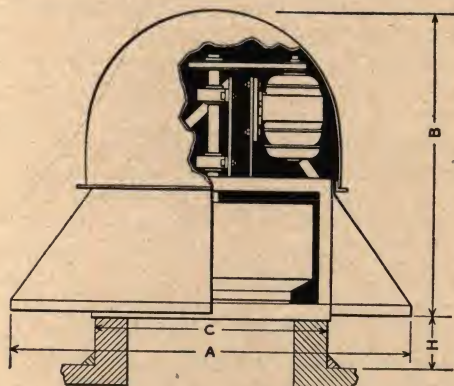
Catalog No.	Fan Size In.	No. Blades	H.P.	Fan Speed R.P.M.	Ph.	Voltage	C.F.M. Static Pressure				Approx. Shpgg. Wt. lbs. Galv.
							.0"	.1"	.125"	.250"	
DIRECT DRIVE FANS											
S-10-1	10	4	1/20	1100	1	115/230	550	390	365	185	125
S-10-2	10	4	1/12	1700	1	115/230	825	750	725	568	125
S-12-1	12	4	1/20	1100	1	115/230	975	845	800		130
S-12-2	12	4	1/12	1700	1	115/230	1185	1120	1100	965	130
S-14-1	14	4	1/12	1100	1	115/230	1230	1105	1065		135
S-14-2	14	3	1/12	1100	1	115/230	1440	1280	1230		135
S-14-3	14	4	1/6	1700	1	115/230	1860	1780	1690	1640	135
S-14-4	14	3	1/3	1700	1	115/230	2180	2090	2060	1920	145
S-16-1	16	3	1/8	1100	1	115/230	1970	1800	1740	1340	175
S-16-2	16	3	1/6	1100	1	115/230	2235	2040	1980	1630	180
S-16-3	16	3	1/3	1700	1	115/230	2980	2865	2815	2680	180
S-18-1	18	3	1/4	1100	1	115/230	2760	2520	2460	2040	200
S-18-2	18	4	1/4	1100	1	115/230	3040	2910	2870	2680	200
S-18-3	18	4	1/2	1700	1	115/230	3460	3390	3360	3240	210
S-18-4	18	3	1/2	1700	1	115/230	4170	4020	3980	3780	210
S-20-1	20	4	1/3	1100	1	115/230	3700	3550	3500	3250	250
S-20-2	20	3	1/2	1700	1	115/230	4630	4510	4490		250
S-22-1	22	4	1/3	1100	1	115/230	4290	4070	4010		285
S-22-2	22	4	1/2	1100	1	115/230	5250	5000	4950		285
S-24-1	24	4	1/2	1100	1	115/230	5800	5560	5500	5160	340
S-24-2	24	4	3/4	1100	3	220/440	6220	6120	6065	5660	365
S-24-3	24	4	1	1100	3	220/440	7360	7230	7190	6865	375
S-28-1	28	4	3/4	870	3	220/440	7650	7180	7020	6130	420
S-28-2	28	4	1	1100	3	220/440	8300	7980	7900	7400	455
S-32-1	32	4	1/2	1100	1	115/230	9530	8200	8100	6500	440
S-32-2	32	6	3/4	1100	3	220/440	11000	10300	10000	8900	480
S-36-1	36	6	1/2	870	3	220/440	11350	10000	9800	8000	540
S-36-2	36	4	3/4	1100	3	220/440	12500	11400	11000	9300	545
S-36-3	36	6	1	1100	3	220/440	13950	13100	12800	11530	560
S-42-1	42	4	1	870	3	220/440	17250	15950	15600	13600	785
S-42-2	42	4	2	1100	3	220/440	21400	20600	19700	17850	790
S-42-3	42	6	3	1100	3	220/440	24900	24400	23850	22550	870
S-48-1	48	4	1	695	3	220/440	20500	18500	17200	13100	1070
S-48-2	48	4	2	870	3	220/440	25700	24900	23100	20250	1070
S-48-3	48	6	3	870	3	220/440	29800	28700	27900	25900	1100
S-48-4	48	4	5	1100	3	220/440	34200	33100	32200	30200	1100
S-54-1	54	4	2	695	3	220/440	30400	27000	25620	22750	1300
S-54-2	54	4	5	870	3	220/440	41000	39000	38250	35250	1400
BELT DRIVE FANS											
SP-24-1	24	4	1/4	560	1	115/230	4790	3830	3280		340
SP-24-2	24	4	1/3	640	1	115/230	5480	4750	4530		340
SP-24-3	24	4	1/2	700	1	115/230	6000	5250	5030	3430	350
SP-30-1	30	4	1/3	435	1	115/230	6930	5600	5050		470
SP-30-2	30	4	1/2	480	1	115/230	7660	6500	6000	4700	480
SP-30-3	30	4	3/4	550	3	220/440	8800	8000	7700	5960	485
SP-36-1	36	4	1/2	360	1	115/230	10200	7200	5850		565
SP-36-2	36	4	3/4	415	3	220/440	11775	9650	8625		570
SP-36-3	36	4	1	485	3	220/440	13750	12300	11575		620
SP-42-1	42	4	3/4	325	3	220/440	13375	9650	7500		795
SP-42-2	42	4	1	390	3	220/440	16050	13925	12625		825
SP-42-3	42	5	1-1/2	410	3	220/440	16750	14520	13900	8900	845
SP-48-1	48	4	1	280	3	220/440	17800	13250	10350		980
SP-48-2	48	4	1-1/2	310	3	220/440	19700	16150	14200		990
SP-48-3	48	5	3	415	3	220/440	24200	22200	21400	17500	1045
SP-54-1	54	6	2	286	3	220/440	27300	25300	23900		1200
SP-54-2	54	6	3	314	3	220/440	30000	28700	27600		1225

NOTE—Motor characteristics listed above are standard. 2 or 3 phase, 220, 440, or 550 Volt motors can be supplied, also special heat, vapor, or explosion proof motors (Class 1, Group D) when necessary. Specification should indicate if motors other than standard are required.

Centrifugal Power Roof Ventilator



dimensions



View showing housing where motor operated damper is required.

Cat. No.	Dimensions, inches				
	A	B	C	H	I
110	23	16	17	10	8
122	24	16	18½	10	8
135	26	16	19½	10	8
150	27	18	21	10	8
165	28½	18	22½	10	8
180	30	21	24	10	8
200	32	25	26	15	8
222	37	28	28½	15	8
245	42	33	30½	15	8
270	45	36	33	15	8
300	50	39	36	15	8
330	54	40	39	18	10
365	62	43	42½	18	10
445	73	46	50½	18	10
490	80	51	55	18	10

The integral parts are constructed with heavy welded steel, and the housing is of heavy gauge galvanized steel or other metal. This combination assures a rigidly built unit capable of handling large volumes of air at static pressures. The top is hinged for easy access to the motor section. An unfused safety disconnect switch is provided for safety in maintenance.

MOTORS—Totally enclosed ball bearing 55° C. are used as standard equipment. Voltage, phase, and current to suit requirements.

BACKWARD CURVED WHEEL—The wheel is non-overloading within the engineering limits of the design requirements and carry certified air deliveries.

DRIVE—Belt-drive units have motor and fan pulleys located as far apart as possible, allowing maximum belt wrap, thereby assuring positive drive. A sliding motor mount is provided for adjustment of belt tension.

DAMPER—Self-operating or motor operated louver damper is optional. Self-operating damper to be installed in the inside of curb opening. Motor operated damper to be furnished in adapter box with access door above curb.

BIRD SCREEN—Optional equipment; to be provided at outlet of unit.

SPECIFICATION—Power Roof Ventilators, sizes and location on plans, to be Arex Centrifugal Power Roof Ventilator, Catalog No., as manufactured by the AREX COMPANY, 612 North Michigan Avenue, Chicago 11, Illinois. Fabricated of manufacturers standard gauge (state metal.)

ratings

Cat. No.	Backward Curved Wheel			Motor		C.F.M. Static Pressure				
	Dia. In.	R.P.M.	Tip Speed	H.P.	R.P.M.	1/4"	3/8"	1/2"	5/8"	3/4"

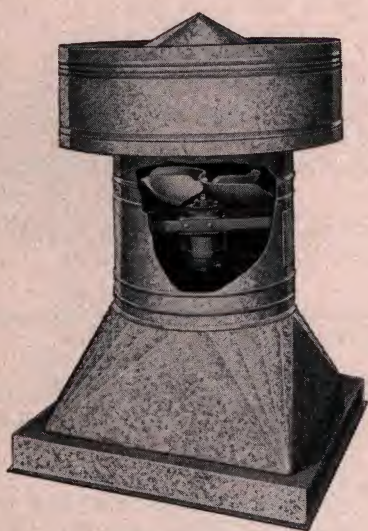
DIRECT DRIVE

A-110	11	840	2420	1/20	840	302				
A-110-1	11	1140	3285	1/12	1140	530				
A-110-2	11	1725	4960	1/6	1725	1000	460	351	790	740
A-122	12-1/4	840	2700	1/20	840	478				
A-122-1	12-1/4	1140	3670	1/12	1140	790	725	630	520	
A-122-2	12-1/4	1725	5531	1/4	1725	1360	1300	1252	1200	1130
A-135	13-1/2	840	2960	1/20	840	708	550			
A-135-1	13-1/2	1140	4025	1/6	1140	1120	1025	912	812	665
A-135-2	13-1/2	1725	5925	1/2	1725	1850	1795	1740	1680	1580
A-150	15	840	3300	1/8	840	1020	864	660		
A-150-1	15	1140	4480	1/6	1140	1562	1470	1358	1232	1125
A-165	16-1/2	840	3640	1/6	840	1450	1280	1100	850	
A-165-1	16-1/2	1140	4925	1/3	1140	2160	2060	1900	1790	1675

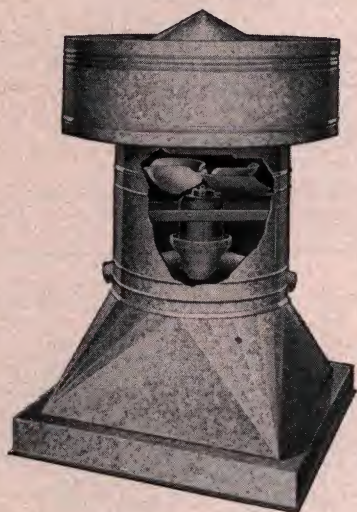
BELT-DRIVE

AB-180	18	723	3410	1/3	1725	2000	1700	1350		
AB-180-1	18	816	3845	1/2	1725	2350	2150	1850	1500	1200
AB-180-2	18	940	4430	3/4	1725	2850	2700	2250	2100	1800
AB-200	20	687	3600	1/2	1725	2700	2250	1800	1500	
AB-200-1	20	764	4000	3/4	1725	3100	2900	2350	2000	1600
AB-222	22-1/4	585	3405	1/2	1725	3000	2650	2025		
AB-222-1	22-1/4	660	3840	3/4	1725	3600	3350	2700	2300	1800
AB-245	24-1/2	560	3755	3/4	1725	4250	3700	2850	2250	
AB-245-1	24-1/2	644	4130	1	1725	4950	4660	3900	3300	3050
AB-270	27	470	3330	3/4	1725	4500	3800	2700		
AB-270-1	27	555	3925	1	1725	5650	5300	4400	3700	2850
AB-300	30	455	3720	1	1725	6050	5500	4100	3300	
AB-300-1	30	512	4185	1-1/2	1725	7000	6500	5250	4600	3750
AB-300-2	30	610	4790	2	1725	8800	8325	7000	6600	6175
AB-330	33	440	3805	1-1/2	1725	7850	7300	6000	5000	4000
AB-330-1	33	505	4360	2	1725	9550	9000	7500	7000	6000
AB-330-2	33	575	4965	3	1725	11125	10700	9000	8500	8000
AB-365	36-1/2	411	3930	2	1725	10300	9625	8000	7000	5500
AB-365-1	36-1/2	475	4540	3	1725	12400	11675	10200	9200	8550
AB-445	44-1/2	319	3720	3	1725	14300	13300	10000	8200	
AB-445-1	44-1/2	385	4485	5	1725	18000	17350	14500	13600	11800
AB-490	49	338	4335	5	1725	21050	19800	16500	15400	14300
AB-490-1	49	372	4775	7-1/2	1725	23525	22300	18700	17600	16500
AB-490-2	49	420	5290	7-1/2	1725	27250	24800	22000	20925	19800

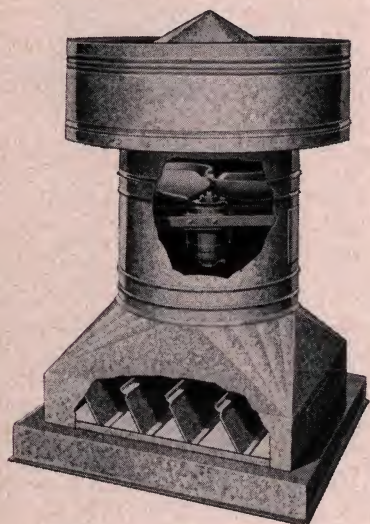
NOTE—Other speeds than those above can be supplied. Motor characteristics listed above are standard. Special heat, vapor, or explosion proof motors (Class 1, Group D) can be furnished if necessary. Specifications should indicate if motors other than standard are required. Architects, engineers—see specifications above.



TYPE A—Standard Unit



TYPE B—Air Over Motor



TYPE C—Motorized Damper

The Arex Power Roof Ventilator is designed for use on industrial buildings, power plants, warehouses, boiler houses, etc. Standard equipment includes totally enclosed ball bearing 55° C. motor and perfectly balanced propeller with certified rating using H.P. and R.P.M. for highest efficiency at the most economical cost. The ventilator will exhaust by gravity when the fan is not in operation in Type A and Type B units.

TYPE A UNIT

The Type A unit is satisfactory for operation under ordinary conditions where heat does not exceed 120° F., and where no excessive moisture, heavy fumes or gases are present.

TYPE B UNIT

The Type B unit is recommended for use under abnormal conditions. Furnished in size 16-inch and larger. Special motors are not necessary. Provision is made for the outside air to continually pass over the motor which operates successfully in heat up to 180° F. Sizes 16" to 30" have one fresh air inlet tube; 36" and larger units have two fresh air inlet tubes. Each tube draws 400 lineal feet of air per minute over the motor.

TYPE C UNIT

The Type C unit is furnished with a motor operated louver and standard fan. The damper is set in the shoulder of the square to round base (style 10, 10-A, 11, or 12 shown on page 3). An access panel is provided in the square to round base.

Double-Cone Head

The Utility Double-Cone Ventilator head is specially designed for use with the Arex Fan Unit. The use of a double-cone top, extra-wide stormband, and inside baffles at top and bottom, minimize the resistance of the ventilator head to the fan. Absolutely stormproof.

Materials and Finishes

Fabricated from prime sheets in galvanized steel, aluminum, copper, lead-coated copper, stainless steel, etc., and in standard gauges shown in table. Galvanized steel can be painted with a prime coat of paint. Special coatings for corrosive conditions are available.

Accessory Equipment

DAMPER—Chain operated split butterfly type damper with counterweight and desired length of chain, can be furnished for Type A and Type B units.

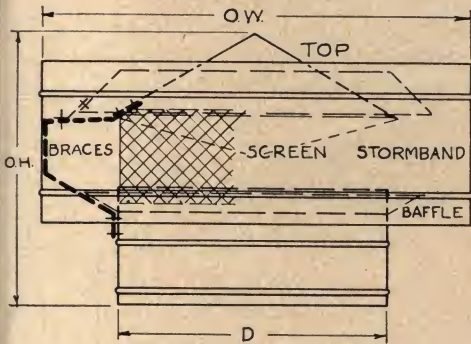
An aluminum leaved felt-edged self-operating damper is available for use where a chain operated damper is not applicable. The damper opens when the fan is in operation and closes by gravity when fan is off. This damper can be set in the shoulder of the square to round base (style 10, 10-A, 11, or 12 shown on page 3), or furnished separately for installation in the inside curb opening.

SCREENS—All screens are drum type to prevent nesting of birds in the ventilator. Insect or bird screens furnished only as indicated in the specifications.

Specifications

Power roof ventilators, sizes and location as shown on plans or given herein, to be Arex Power Roof Ventilator (indicate Type A, B, or C) with Arex Fan Unit, Cat. No. as manufactured by AREX COMPANY, 612 North Michigan Avenue, Chicago 11, Illinois. Fabricated in manufacturer's standard gauge (state metal). Show any requirement for chain operated or self-operating damper, and screen.

dimensions



Dimensions, Inches			Gauge of Ventilators		
D.	O.H.	O.W.	Galv. Ga.	Alum. Ga.	Shpg. Wt. lbs. Galv.
12	13	19	24	20	26
14	16	22	24	20	30
16	18	25	24	20	36
18	20	28	24	20	45
20	22½	31	22	20	53
24	27	37½	22	20	75
30	34	47	22	20	130
36	40½	56	20	18	175
42	47	65½	20	18	225
48	54	75	20	18	310
54	61	84	20	16	375
60	67½	93½	18	16	400
66	74	103	18	16	475

Physical data and performance

Vent Dia. in.	Fan Dia. in.	No. Blades	H.P.	R.P.M.	C.F.M. Static Pressure				Ht. of Unit	Shpg. Wt. lbs.**	Catalog Number		
					0"	.1"	.125"	.250"			Type A	Type B*	Type C
12	10	4	1/20	1700	855	770	745		12	25	AR-1210-1		CR-1210-1
12	10	4	1/20	1100	565	425			12	25	AR-1210-2		CR-1210-2
14	12	4	1/20	1100	975	845	800		12	30	AR-1412-1		CR-1412-1
14	12	4	1/12	1700	1,185	1,120	1,100	965	12	30	AR-1412-2		CR-1412-2
16	14	3	1/20	1100	1,090	950	915		14	40	AR-1614-1	BR-1614-1	CR-1614-1
16	14	4	1/12	1100	1,445	1,320	1,275		14	40	AR-1614-2	BR-1614-2	CR-1614-2
16	14	4	1/6	1700	1,860	1,780	1,690	1,580	16	44	AR-1614-3	BR-1614-3	CR-1614-3
16	14	4	1/4	1700	2,180	2,110	2,090		16	45	AR-1614-4	BR-1614-4	CR-1614-4
18	16	3	1/8	1100	1,970	1,800	1,740	1,340	18	45	AR-1816-1	BR-1816-1	CR-1816-1
18	16	3	1/6	1100	2,235	2,040	1,980	1,630	18	45	AR-1816-2	BR-1816-2	CR-1816-2
18	16	3	1/3	1700	2,980	2,865	2,815	2,680	18	49	AR-1816-3	BR-1816-3	CR-1816-3
20	18	3	1/4	1100	2,760	2,520	2,460	2,040	20	55	AR-2018-1	BR-2018-1	CR-2018-1
20	18	4	1/4	1100	3,040	2,910	2,870	2,680	20	55	AR-2018-2	BR-2018-2	CR-2018-2
20	18	3	1/2	1700	4,170	4,020	3,980	3,780	20	75	AR-2018-3	BR-2018-3	CR-2018-3
24	22	4	1/4	1100	3,620	3,400	3,345		20	85	AR-2422-1	BR-2422-1	CR-2422-1
24	22	4	1/3	1100	4,290	4,070	4,010		20	90	AR-2422-2	BR-2422-2	CR-2422-2
24	20	3	1/2	1700	4,630	4,510	4,490		20	90	AR-2420-3	BR-2420-3	CR-2420-3
24	22	4	1/2	1100	5,250	5,000	4,950		20	90	AR-2422-4	BR-2422-4	CR-2422-4
30	24	4	1/2	1100	5,800	5,560	5,500	5,160	20	125	AR-3024-1	BR-3024-1	CR-3024-1
30	24	4	1	1100	7,360	7,230	7,190	6,865	20	135	AR-3024-2	BR-3024-2	CR-3024-2
30	28	4	3/4	1100	6,650	6,340	6,260	5,800	22	135	AR-3028-1	BR-3028-1	CR-3028-1
30	28	4	1	1100	8,300	7,980	7,900	7,400	22	135	AR-3028-2	BR-3028-2	CR-3028-2
36	32	4	1/2	1100	9,530	8,200	8,100	4,500	20	180	AR-3632-1	BR-3632-1	CR-3632-1
36	32	6	3/4	1100	11,000	10,300	10,000	8,900	22	200	AR-3632-2	BR-3632-2	CR-3632-2
42	36	4	3/4	1100	12,500	11,400	11,000	9,300	22	200	AR-4236-A	BR-4236-A	CR-4236-A
42	36	6	1	1100	13,950	13,100	12,800	11,530	24	250	AR-4236-B	BR-4236-B	CR-4236-B
48	42	4	2	1100	21,400	20,600	19,700	17,850	24	275	AR-4842-A	BR-4842-A	CR-4842-A
48	42	6	3	1100	24,900	24,400	23,850	22,550	24	300	AR-4842-B	BR-4842-B	CR-4842-B
54	48	4	2	870	25,700	24,900	23,100	20,250	26	325	AR-5448-A	BR-5448-A	CR-5448-A
54	48	6	3	870	29,800	28,700	27,900	25,900	26	350	AR-5448-B	BR-5448-B	CR-5448-B
60	54	4	2	695	30,400	27,000	25,620	22,750	28	375	AR-6054-A	BR-6054-A	CR-6054-A
66	60	4	2	695	34,800	32,000	30,500	25,850	28	400	AR-6660-A	BR-6660-A	CR-6660-A

*Type B Fan units are 3 in. higher.

**Shipping weights are for fan sections exclusive of ventilator heads and bases.

NOTE—C.F.M. delivery of blades based on tests by N.A.F.M. Code. No duct or pipe connections, exhaust heads, grilles, etc., are taken into consideration. Motor Characteristics listed above are standard.

Type A and B—2 or 3 phase, 220, 440, or 550 Volt motors can be supplied, also special heat, vapor, or explosion proof motors (Class 1, Group D) when necessary. Specifications should indicate if motors other than standard are required.

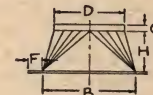
Type "C" Power Ventilator is furnished for A.C., 60 cy., 1 ph., 115 Volts; 1 ph., 230 Volts or 3 ph., 220 Volts or 440 Volts. Indicate current in specification.

SPEED—All units are furnished in single speed. Indicate two-speed control requirements in specification.

BASES

Square to Round Bases are illustrated below for Types A, B, and C units. All bases have flashing flange, bases for curb have down flashing or outside of curb. Dimensions given in tables are standard but can be varied to meet opening requirements. Roof pitch required for bases to set on slope or ridge of roof. Give inside opening and width of curb for bases to set on curbs.

BASES FOR TYPE A AND B UNITS



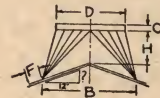
No. 7

For flat roof



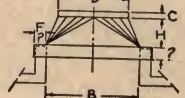
No. 8

For slant roof



No. 9

For ridge roof

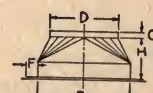


No. 16

For curb

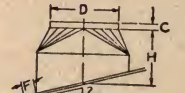
Dimensions, inches					Gauge of Bases		Shpg. Wt. lbs. Galv.
D	B	H	F	C	Galv. ga.	Alum. Ga.	
12	15 x 15	12	4	3	24	20	20
14	17½ x 17½	13	4	3	24	20	26
16	20 x 20	14	4	3	24	20	35
18	22½ x 22½	15	4	3	24	20	45
20	25 x 25	16	4	3	22	20	58
24	30 x 30	18	4	3	22	20	80
30	37½ x 37½	21	4	3	20	20	130
36	45 x 45	24	4	3	20	18	140
42	52½ x 52½	27	5	4	20	18	150
48	60 x 60	30	5	4	20	18	170
54	67½ x 67½	33	5	4	20	16	210
60	75 x 75	36	5	4	18	16	280
66	82½ x 82½	39	6	5	18	16	400

BASES FOR TYPE C UNIT



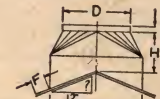
No. 10

For flat roof



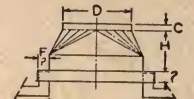
No. 11

For slant roof



No. 12

For ridge roof



No. 10-A

For curb

Dimensions, inches					Gauge of Bases		Shpg. Wt. lbs. Galv.
D	B	H	F	C	Galv. Ga.	Alum. Ga.	
12	16 x 16	16	4	3	24	20	30
14	18 x 18	17	4	3	24	20	36
16	20 x 20	17	4	3	24	20	42
18	24 x 24	18	4	3	24	20	58
20	26 x 26	18	4	3	22	20	80
24	30 x 30	20	4	3	22	20	130
30	36 x 36	25	4	3	22	20	150
36	39½ x 39½	28	4	3	20	18	180
42	50 x 50	31	4	4	20	18	200
48	60 x 60	34	4	4	20	18	230
54	66 x 66	37	6	4	20	18	250
60	73 x 73	40	6	4	18	16	295
66	80 x 80	43	6	5	18	16	430

Arin

Accelerant Louver . . . adjustable

Designed for outside walls and are waterproof and stormproof in any position from open to closed. They are adaptable to any type of wall or building. Louver units can be built to fit any size opening; mullions are provided for louvers exceeding 48 inches in width. Any number of louver units can be operated by rod and gear control.

CONSTRUCTION—Brass pivots on louver blades operate in bronze bearings in louver frame. Adjustable quadrant device holds the blades in any position from open to closed. Louver can be furnished with chain (friction) control, or fusible link control for automatic closing in case of fire. Jambs provided to suit requirements. Standard depth for hand control louvers is 4 inches; for fusible link louvers is 5 inches. Special frames provided for glass block wall installation.

MATERIAL—Standard gauges galvanized steel—16 ga. blades, 18 ga. frames. Cold rolled or lead coated copper—48 ounce blades, 32 ounce frames. Aluminum—14 ga. blades, 16 ga. frames. Stainless steel—18 ga. blades, 20 ga. frames.

SCREENS—Designed to meet specifications as to mesh and gauge of wire.

SPECIFICATION—All louvers to be "Arin" Accelerant Louvers as manufactured by AREX COMPANY, 612 North Michigan Avenue, Chicago 11, Illinois.

Stationary Louvers

Fabricated in any size to meet requirements and in galvanized steel, aluminum, cold rolled copper, lead coated copper, stainless steel, etc. Standard frames are 4 inches deep. Jambs are the same style as shown for adjustable louvers.

Arin

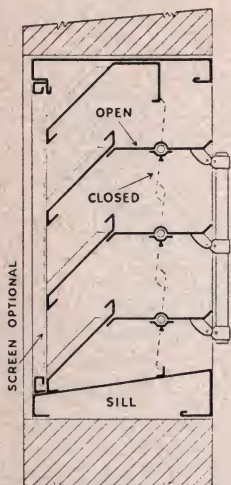
Extruded Aluminum Louvers

The Arin Accelerant Louver and Arin Stationary Louver are also furnished in 12 gauge (.081) extruded aluminum, with mill finish or aluminite finish as specified.

Both types of louvers are provided with a standard 4-inch deep frame. The adjustable louver can be furnished with hand quadrant, or with hand quadrant and fusible link for automatic closing in event of fire, chain control, or gear operator.

Jambs can be provided to suit installation requirements. Vertical mullions are provided for adjustable louvers over 48 inches wide.

SPECIFICATION—All louvers to be "Arin" Accelerant Louvers (or "Arin" Stationary Louvers) 12 gauge (.081) extruded aluminum (specify mill finish or aluminite finish) as manufactured by AREX COMPANY, 612 North Michigan Avenue, Chicago 11, Illinois.



Vertical Section
Arin Combination Louver
11" deep

Arin

Combination Louver

CONSTRUCTION—The stationary and adjustable louvers are combined in a common frame, permitting the complete assembly to be set in walls 12-inches deep. The blades of the adjustable louver open a full 90 degrees, and line up evenly with the blades of the stationary louver for a straight flow of air through the opening.

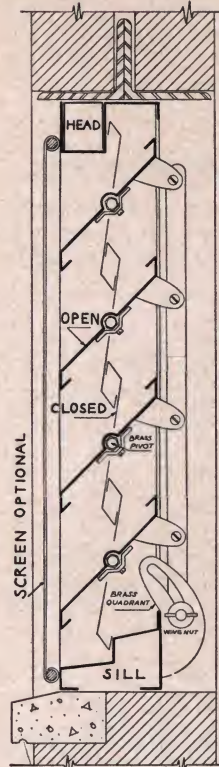
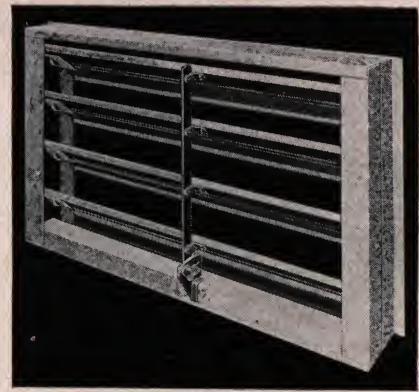
OPERATION—Standard hand control or fusible link control can be provided as well as chain, rod and gear operators.

MATERIAL—Galvanized steel, aluminum, cold rolled copper, leadcoated copper, stainless steel, etc.

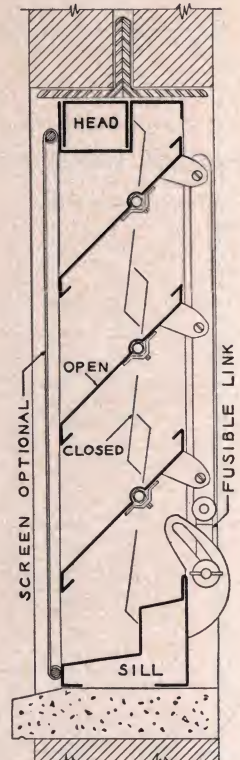
SCREENS—Designed to meet specifications as to mesh and gauge of wire.

SPECIFICATIONS—All louvers to be "Arin" Combination Louvers as manufactured by the AREX COMPANY, 612 North Michigan Avenue, Chicago 11, Illinois.

Write for Catalog I describing Arin Louvers, Louver Dampers and Fire Dampers.



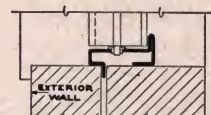
Vertical Section
"Arin" Adjustable Louver
4" deep



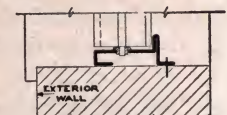
Vertical Section
"Arin" Adjustable Fusible
Link Louver 5" deep

Various Styles of Jambs which can be furnished

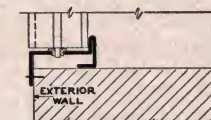
Other Designs Can Be Provided.



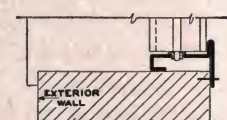
Jamb Style "A"
For setting Louver in a
Mortar Joint



Jamb Style "B"
For setting Louver Any-
where within Wall



Jamb Style "C"
With Flange for Fastening
Louver Flush with Exterior
Face of Wall



Jamb Style "D"
With Flange for Fastening
Louver Flush with Interior
Face of Wall

AREX COMPANY

Industrial Ventilating Engineers

612 North Michigan Avenue, Chicago 11, Illinois • Telephone DElaware 7-3340

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Carol J. Dyson, AIA